NC/QC/BD/2020-21/RSR-C1 Date: 08-06-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**165 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.18 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.05mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.64 N/Sq mm**	Shall not be less than 27 N/Sqmm

Page No. 1/1,

For Newzen Consultants Bangalore
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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NC/QC/BD/2020-21/RSR-PCC1 Date: 08-06-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.90	0 -20	30- 70
10mm	31.45	0 -5	10- 35
4.75mm	4.10	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.35	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.15	60-95	75-100	85-100	
01.18	75.80	30-70	55-90	75-100	
600.mic	48.10	15-34	35-59	60-79	
300.mic	23.05	5-20	8-30	12-40	
150.mic	8.25	0-10	0-10	0-10	

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For Newzen Consultants Bangalo

Proprietor

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NC/QC/BD/2020-21/RSR-C2 Date: 10-06-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**152 min**	Shall not be less than 30 min
2	Final setting time	**280 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.86 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.93 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.45 N/Sq mm**	Shall not be less than 27 N/Sqmm

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For Newzen Consultants Bangalore

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NC/QC/BD/2020-21/RSR-FA1 Date: 10-06-2020

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.25**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.90**	60-95	75-100	85-100	
01.18	**74.65**	30-70	55-90	75-100	
600. mic	**43.15**	15.34	35-59	60-79	
300.mic	**25.70**	5-20	8-30	12-40	
150.mic	**8.10**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.45 %**	-----
2	Silt Content	----	**0.59%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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For Newzen Consultants Bangalore
Proprietor

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NC/QC/BD/2020-21/RSR-CA1 Date: 10-06-2020

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.20	85-100	90 - 100
10 mm	45.65	0 - 20	25 - 55
4.75 mm	3.90	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	25.72%	Not to exceed 25 %
2.	Crushing value	28.96%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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Page No. 1/1

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NC/QC/BD/2020-21/RSR-S1 Date: 10-06-2020

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 and 12 mm **TMT Steel.**
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE – 1.1

SL No	Details	For 10mm		For 12mm	
		Test Results	Min Req as per IS 1786-2008	**Test Results**	Min Req as per IS 1786-2008
01	Observed diameter of bar	**10.0mm**	10.0mm	**12.0mm**	12.0mm
02	Observed Wt/m Length **Kg/m**	**0.614**	0.567	**0.892**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**556.0**	500.0	**554.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.70**	12.00	**21.40**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**648.0**	545.0	**639.0**	545.0

For Newzen Consultants Bangalore
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NC/QC/BD/2020-21/RSR-CB1

Date: 22-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-06-20	22-06-20	07	22500	365	16.22	**16.30**
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	375	16.67	

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NC/QC/BD/2020-21/RSR-CB2 Date: 25-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-06-20	25-06-20	07	22500	380	16.89	**16.81**
	002	‘’	“	‘’	“	370	16.44	
	003	‘’	“	‘’	“	385	17.11	

For Newzen Consultants Bangalore
Proprietor

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NC/QC/BD/2020-21/RSR-CB3 Date: 27-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-06-20	27-06-20	07	22500	360	16.00	**16.07**
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	370	16.44	

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NC/QC/BD/2020-21/RSR-CB4 Date: 29-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-06-20	29-06-20	07	22500	375	16.67	**16.74**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	370	16.44	

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Proprietor

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